

ORGANIC ELECTROLUMINESCENCE ELEMENT

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Abstract of JP8199162

PURPOSE: To produce the subject element having long life to cause little variation of the luminescent color after driving for a long period, exhibiting high luminescent efficiency and suitable for a display for information industry equipments, etc., by adding a specific amount of a specific fluorescent dopant to a recombination area and a light-emitting area. CONSTITUTION: This organic electroluminescence element is provided with an organic compound layer having a recombination area to cause the recombination of holes and electrons and a light-emitting area to emit light in response to the recombination and a pair of electrodes sandwiching the organic compound layer. The recombination area or the light-emitting area contains 0.1-8wt.% of a fluorescent dopant consisting of a compound of formula I (Ar<1> to Ar<3> are each a 1-10C alkyl, a 6-30C aryl or a heterocyclic group and at least one of the groups is a >=12C condensed polycyclic hydrocarbon group) or a compound of formula II (Ar<4> to Ar<7> are each a 1-10C alkyl, a 6-30C aryl or a heterocyclic group; Ar<8> is a 6-30C arylene or a bivalent heterocyclic group; at least one of Ar<4> to Ar<8> is a >=12C condensed polycyclic hydrocarbon group).

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